

100

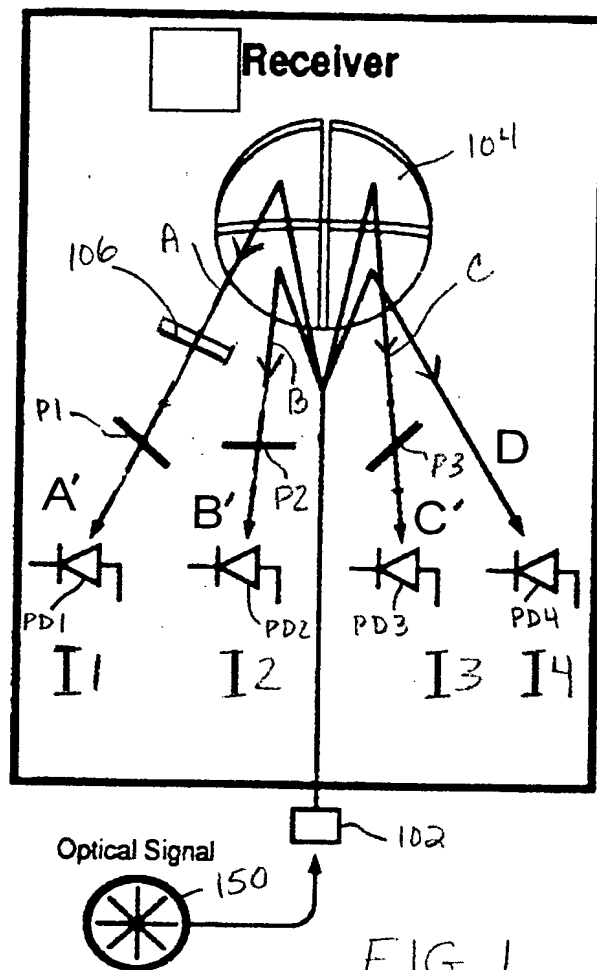


FIG. 1

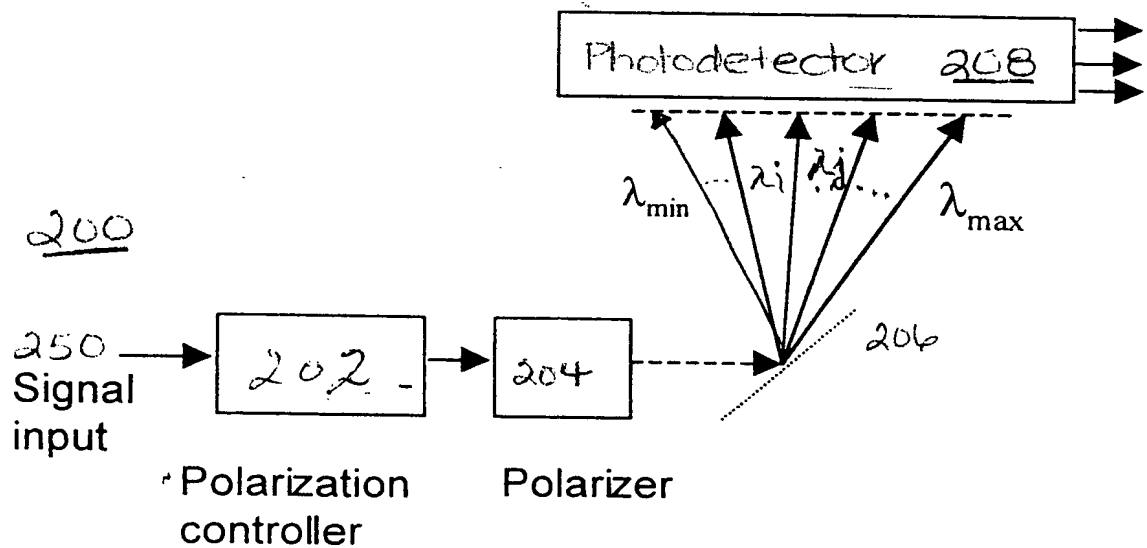


FIG. 2

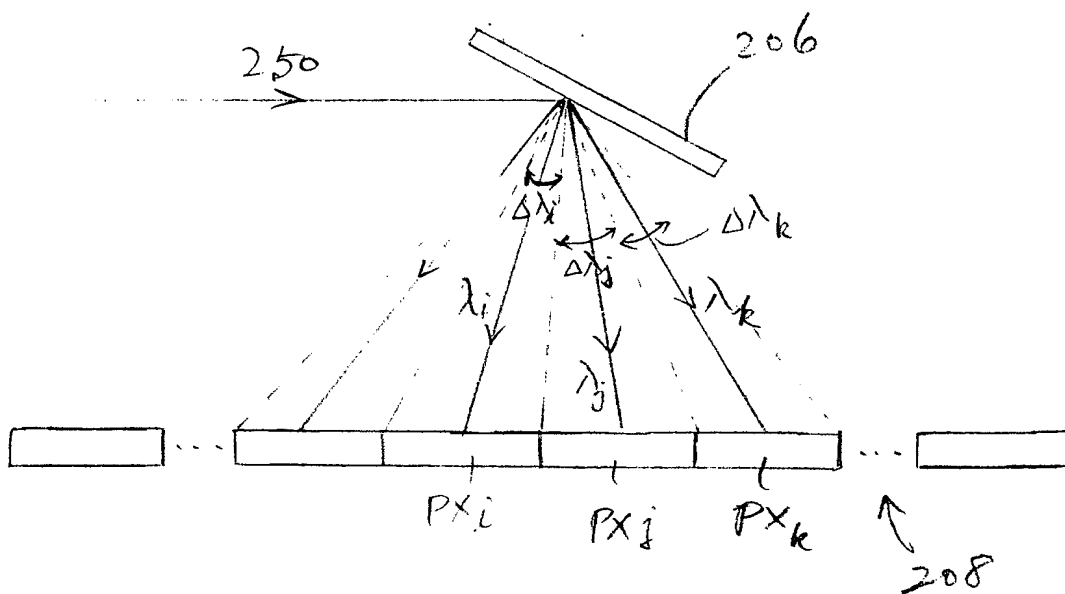


FIG. 3a

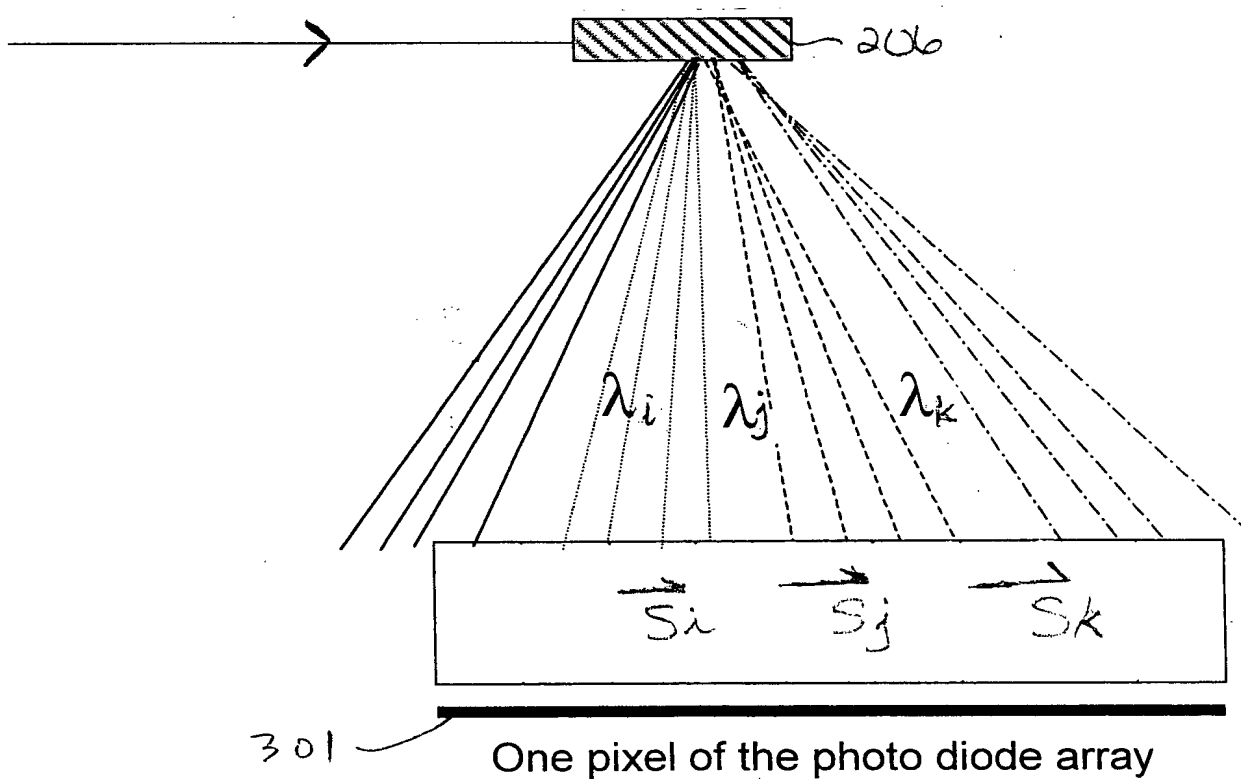


FIG. 3b



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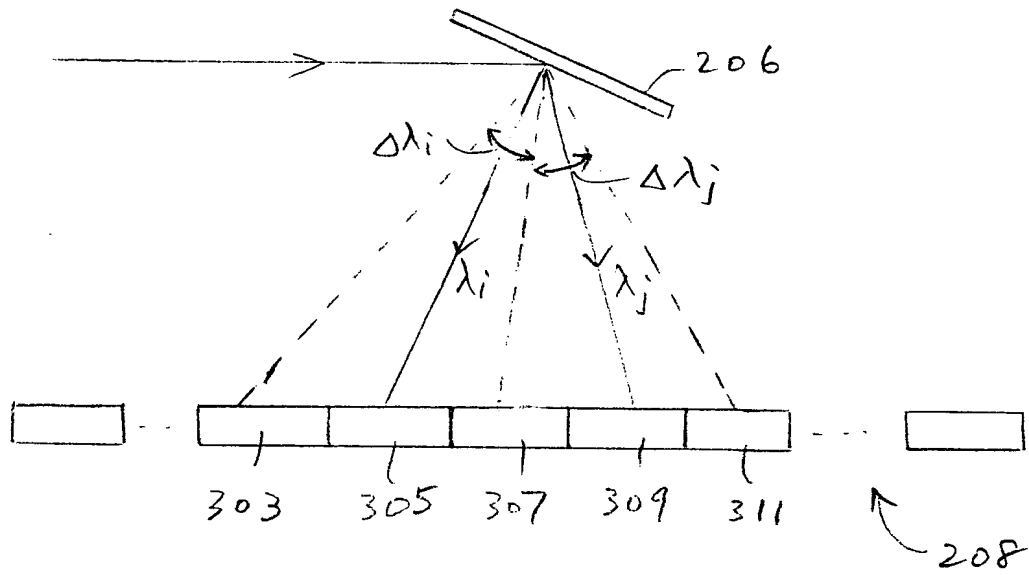


FIG. 3C

Launch input optical signal having a polarization state into a polarization analyzer comprising a polarization controller, a polarizer, a wavelength dispersive element and a photodiode array

401

Set polarization controller to a first position to provide an output optical signal having a transformed polarization state PC1

403

Direct the transformed optical signal to the polarizer

405

Direct the optical signal from the polarizer to the wavelength dispersive element to generate a plurality of spectral components

407

Measure the optical powers of the plurality of spectral components using the photodiode array

409

Set the polarization controller sequentially to at least three different positions to provide three transformed polarization states PC2, PC3 and PC4, and measure the optical powers for the plurality of spectral components corresponding to each of the polarization states PC2, PC3 and PC4

411

Analyze all measured optical powers to determine polarization state and power of the input optical signal

413

FIG. 4

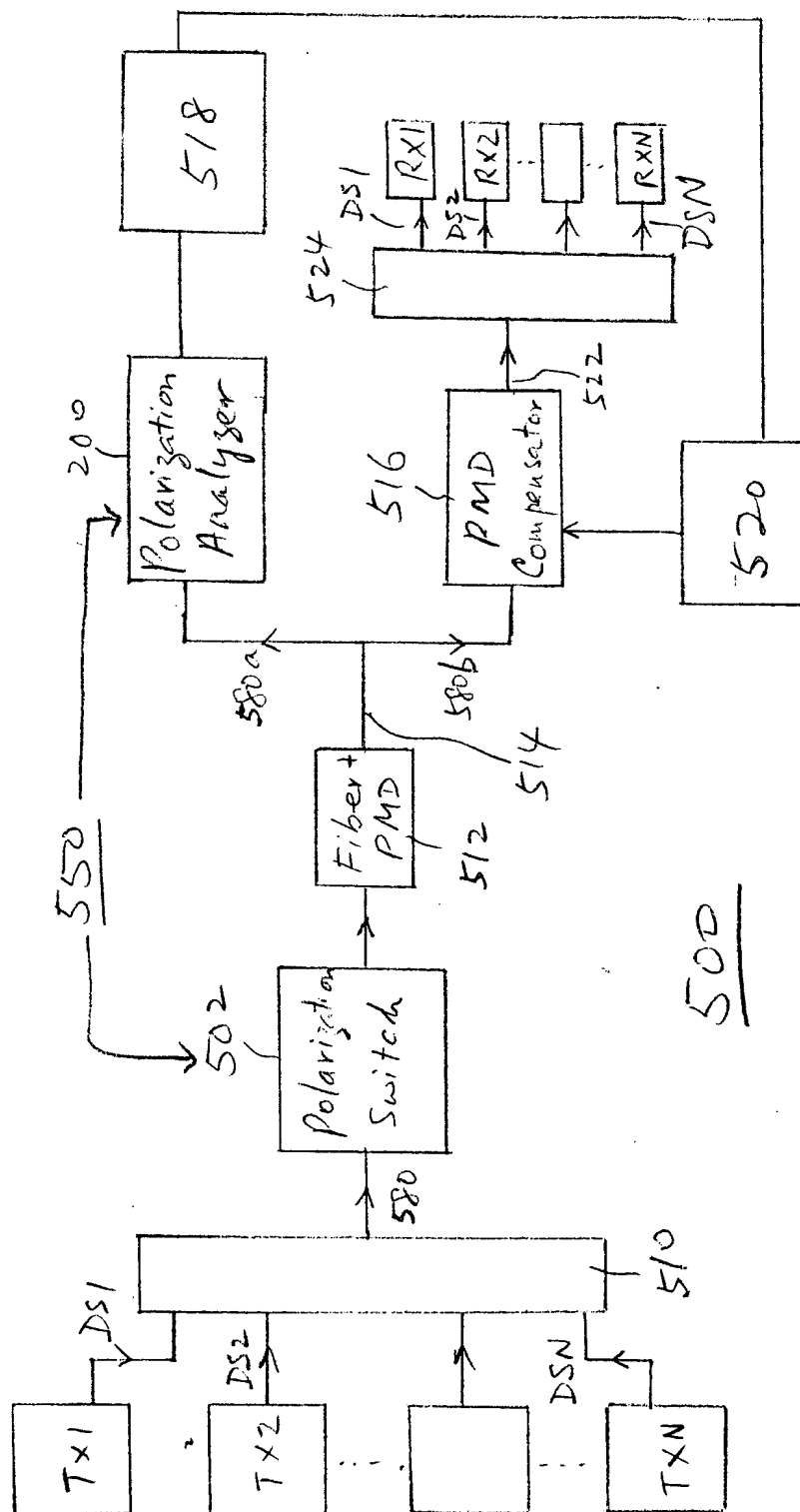


FIG. 5

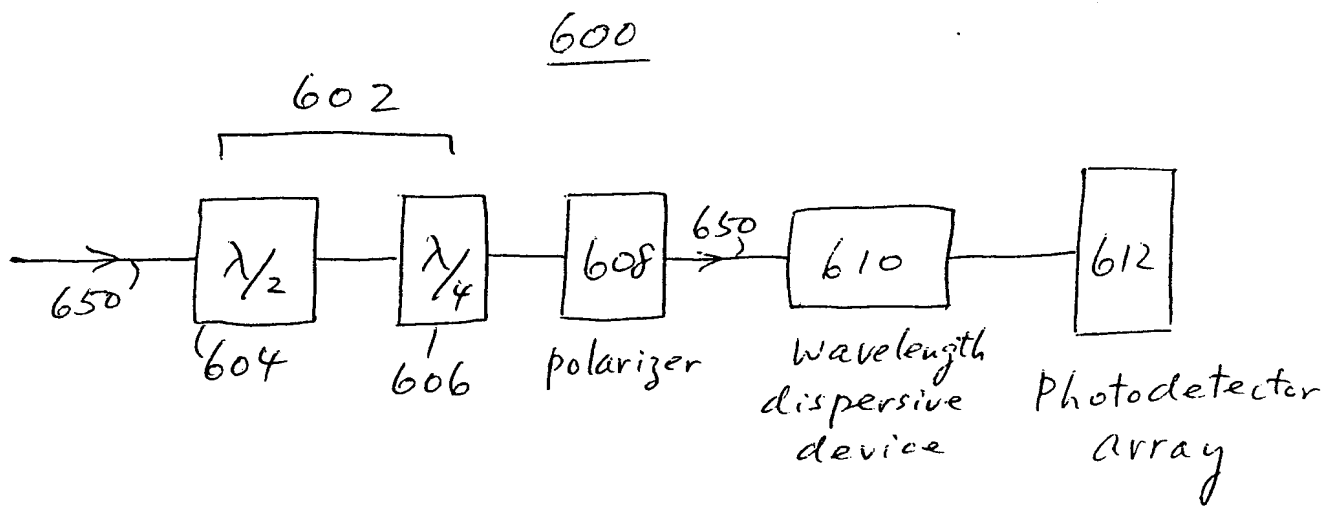


FIG. 6

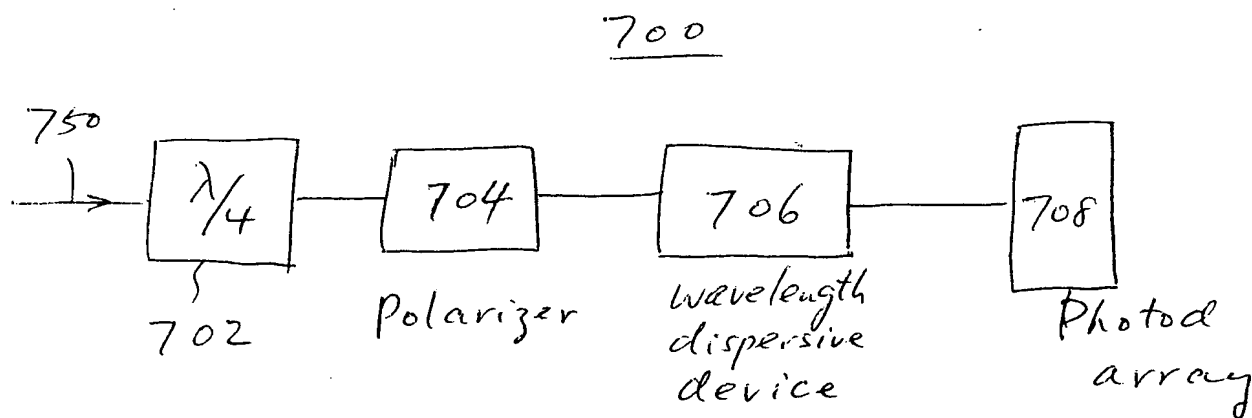


FIG. 7